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1   Protecting confidential data on personal computers with storage capsules
Kevin Borders, Eric Vander Weele, Billy Lau, Atul Prakash
August 2009 **SSYM'09**: Proceedings of the 18th conference on USENIX security symposium
Publisher: USENIX Association

Bibliometrics Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a,   Citation Count: l

Protecting confidential information is a major concern for organizations and individuals alike, who stand to suff
huge losses if private data falls into the wrong hands. One of the primary threats to confidentiality is malicious
software on personal ...

2   Experiences teaching operating systems using virtual platforms and linux
Jason Nieh, Chris Vaill
February 2005 **SIGCSE '05**: Proceedings of the 36th SIGCSE technical symposium on Computer science education
Publisher: ACM ⚲ Request Permissions
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Bibliometrics Downloads (6 Weeks): 4, Downloads (12 Months): 44, Downloads (Overall): 637,   Citation Count: 10

Operating system courses teach students much more when they provide hands-on kernel-level project experien
with a real operating system. However, enabling a large class of students to do kernel development can be
difficult. To address this problem, ...

Keywords: computer science education, open-source software, operating systems, virtual machines, virtualizat

Also published in:
February 2005 *SIGCSE Bulletin* Volume 37 Issue 1

3   Experiences teaching operating systems using virtual platforms and Linux
Jason Nieh, Chris Vaill
April 2006   **SIGOPS Operating Systems Review** , Volume 40 Issue 2
Publisher: ACM
Full text available 📄 Pdf (125.67 KB)

Bibliometrics Downloads (6 Weeks): 5, Downloads (12 Months): 53, Downloads (Overall): 663,   Citation Count: 1

Operating system courses teach students much more when they provide hands-on kernel-level project experien
with a real operating system. However, enabling a large class of students to do kernel development can be
difficult. To address this problem, ...

Keywords: computer science education, open-source software, operating systems, virtual machines, virtualizat

4   Securing distributed storage: challenges, techniques, and systems
Vishal Kher, Yongdae Kim
November 2005 **StorageSS '05**: Proceedings of the 2005 ACM workshop on Storage security and survivability
Publisher: ACM ⚲ Request Permissions
Full text available 📄 Pdf (294.61 KB)

Bibliometrics Downloads (6 Weeks): 19, Downloads (12 Months): 213, Downloads (Overall): 1932,   Citation Count:

The rapid increase of sensitive data and the growing number of government regulations that require longterm d
retention and protection have forced enterprises to pay serious attention to storage security. In this paper, we
discuss important security ...

Keywords: authorization, confidentiality, integrity, intrusion detection, privacy

5   Information security underlying transparent computing: Impacts, visions and challenges

Yaoxue Zhang, Laurence T. Yang, Yuezhi Zhou, Wenyuan Kuang

April 2010   **Web Intelligence and Agent Systems**, Volume 8 Issue 2

Publisher: IOS Press

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count: I

The rapid development of computer network technologies and social informationalization has brought many nev
opportunities and challenges in information security. With improved information and service sharing enjoyed by
more and more people, how to strengthen ...

Keywords: Meta OS, Transparent computing, extended von Neumann architecture, service sharing, ubiquitous
pervasive services

6   SpyProxy: execution-based detection of malicious web content

Alexander Moshchuk, Tanya Bragin, Damien Deville, Steven D. Gribble, Henry M. Levy

August 2007   **SS'07:** Proceedings of 16th USENIX Security Symposium on USENIX Security Symposium

Publisher: USENIX Association

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count:

This paper explores the use of execution-based Web content analysis to protect users from Internet-borne
malware. Many anti-malware tools use signatures to identify malware infections on a user's PC. In contrast, our
approach is to render and observe ...

7   Lithium: virtual machine storage for the cloud
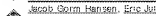
Jacob Gorm Hansen, Eric Jul

June 2010   **SoCC '10:** Proceedings of the 1st ACM symposium on Cloud computing

Publisher: ACM   🔖 Request Permissions

Full text available 📄 Pdf (964.97 KB)

Bibliometrics   Downloads (6 Weeks): 105,   Downloads (12 Months): 373,   Downloads (Overall): 373,   Citation Count:

To address the limitations of centralized shared storage for cloud computing, we are building Lithium, a distribu
storage system designed specifically for virtualization workloads running in large-scale data centers and clouds
Lithium aims to be ...

Keywords: cloud computing, file systems, replication, virtual machines

8   Terra: a virtual machine-based platform for trusted computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

December 2003   **SOSP '03:** Proceedings of the nineteenth ACM symposium on Operating systems principles

Publisher: ACM   🔖 Request Permissions

Full text available 📄 Pdf (140.31 KB)

Bibliometrics   Downloads (6 Weeks): 57,   Downloads (12 Months): 470,   Downloads (Overall): 3999,   Citation Count:

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide rang
security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics
running on a separate, ...

Keywords: VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

Also published in:

December 2003 SIGOPS Operating Systems Review Volume 37 Issue 5

9   Virtual Appliances for Deploying and Maintaining Software

Constantine Sapuntzakis, David Brumley, Ramesh Chandra, Nickolai Zeldovich, Jim Chow, Monica S. Lam, Mendel
Rosenblum

October 2003   **LISA '03:** Proceedings of the 17th USENIX conference on System administration

Publisher: USENIX Association

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count:

This paper attempts to address the complexity of system administration by making the labor of applying softwa
updates independent of the number of computers on which the software is run. Complete networks of machines
are packaged up as data; we refer ...

10   HYDRAstor: a Scalable Secondary Storage
Cezary Dubnicki, Leszek Gryz, Lukasz Heldt, Michal Kaczmarczyk, Wojciech Kilian, Przemyslaw Strzelczak, Jerzy
Szczepkowski, Cristian Ungureanu, Michal Welnicki
February 2009   **FAST '09**: Proceedings of the 7th conference on File and storage technologies
Publisher: USENIX Association

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count: (

HYDRAstor is a scalable, secondary storage solution aimed at the enterprise market. The system consists of a
back-end architectured as a grid of storage nodes built around a distributed hash table; and a front-end consist
of a layer of access nodes ...

11   More Than an Interface---SCSI vs. ATA
Dave Anderson, Jim Dykes, Erik Riedel
March 2003   **FAST '03**: Proceedings of the 2nd USENIX Conference on File and Storage Technologies
Publisher: USENIX Association

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count: 2

This paper sets out to clear up a misconception prominent in the storage community today, that SCSI disc drive
and IDE (ATA) disc drives are the same technology internally, and differ only in their external interface and in t
suggested retail price. ...

12   Scalable virtual machine storage using local disks
Jacob Gorm Hansen, Eric Jul
December 2010   **SIGOPS Operating Systems Review** , Volume 44 Issue 4
Publisher: ACM
Full text available   Pdf (599.80 KB)

Bibliometrics   Downloads (6 Weeks): 85,   Downloads (12 Months): 140,   Downloads (Overall): 140,   Citation Count: 0

In virtualized data centers, storage systems have traditionally been treated as black boxes administered separat
from the compute nodes. Direct-attached storage is often left unused, to not have VM availability depend on
individual hosts. Our work ...

13   A light-weight, collaborative temporary file system for clustered Web servers
Jun Wang
May 2006   **Journal of Parallel and Distributed Computing** , Volume 66 Issue 5
Publisher: Academic Press, Inc.

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count: (

Previous studies indicate that I/O could become a performance bottleneck in commodity PC-based cluster Web
servers. Current local native file systems do not work well for expensive file I/Os while specialized file systems
have a limitation on portability. ...
Keywords: Cluster, Collaborative, File system, I/O, Performance, RDMA, Web server

14   NANDFS: a flexible flash file system for RAM-constrained systems
Aviad Zuck, Ohad Barzilay, Sivan Toledo
October 2009   **EMSOFT '09**: Proceedings of the seventh ACM international conference on Embedded software
Publisher: ACM   Request Permissions
Full text available   Pdf (379.81 KB)

Bibliometrics   Downloads (6 Weeks): 12,   Downloads (12 Months): 143,   Downloads (Overall): 256,   Citation Count: 0

NANDFS is a flash file system that exposes a memory-performance tradeoff to system integrators. The file syste
can be configured to use a large amount of RAM, in which case it delivers excellent performance. In particular,
when NANDFS is configured ...

Keywords: NAND flash, RAM constrained, file system, flash, page mapping

15   GPFS: A Shared-Disk File System for Large Computing Clusters
Frank Schmuck, Roger Haskin
January 2002   **FAST '02**: Proceedings of the 1st USENIX Conference on File and Storage Technologies
Publisher: USENIX Association

Bibliometrics   Downloads (6 Weeks): n/a,   Downloads (12 Months): n/a,   Downloads (Overall): n/a,   Citation Count:

16 External monitoring of endpoint configuration compliance

Darrell M. Kienzle, Ryan K. Persaud, Matthew C. Elder

April 2009 **CSIIRW '09:** Proceedings of the 5th Annual Workshop on Cyber Security and Information Intelligence Research: Cyber Security and Information Intelligence Challenges and Strategies

Publisher: ACM ✎ Request Permissions

Full text available: 🔧 Pdf (522.13 KB)

Bibliometrics Downloads (6 Weeks): 5, Downloads (12 Months): 51, Downloads (Overall): 80, Citation Count: 0

We describe a system for externally monitoring endpoint configuration compliance of an end user system that provides a high assurance monitoring function and data. Typical approaches to monitoring for endpoint configuration compliance rely on the integrity ...

Keywords: configuration compliance, security, trusted computing, virtualization